LAU ISLANDS

Katafanga
Tuvutha'
Vanua Mbalavu
Thithia
Mothe

Karoni
Lakemba
Namuka
Kambara
Wangava

XVI.

BERNICE P. BISHOP MUSEUM

HONOLULU, HAWAII

FIELD NOTE BOOK

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FIELD NOTE BOOK

Subject Geology

Locality Lau, Fiji

Member of Staff [illegible]

Date Apr.–May 1934

All bearings T.N.
(except to Map 8L No. 2-6½ – [illegible] 200 – dec.)
50 ft. (mean)
All bearings not corrected for sea level – see H.

CONTENTS

Ambuna - - - - - - - - - - 2
Tuvutha - - - - - - - - - 2
[illegible] - - - - - - - - 28
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Kauau - - - - - - - - - - 49
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Nairoma - - - - - - - - 17, 18
[illegible] - - - - - - - - 81
Rambuna - - - - - - - - 82
[illegible] - - - - - - - 92

L309 = 75 ± H

= 70 ± H

L310 = 125 ± H

L311

L312

Lost

L315a

L316

L317

younger than the [illegible] the same [illegible]
It is comparatively [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
L319 be from Uthwar, due 10'±.
Uthwar is say 4-5 deg. Uffing
main lode [illegible] 400' run in hard
[illegible] is said 200' terrace remnant
From the remnant bluffs drop northwestward into
NW side of bay.
The position of these terraces is
considered clearly suggestive that they are
[illegible] [illegible] [illegible] [illegible]
The fact that [illegible] [illegible] [illegible]
against [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

Cross-cut NE-SW
S20W - [illegible] [illegible] [illegible] at 175 [illegible]
- steep descent immediately to [illegible]
- up steep [illegible] steep to 320 -
[illegible] ground seems to be [illegible]
- [illegible] gently along undulating 260' level
L320 (see 50 for L320)
Tues May 8th
Ames (after Mother's [illegible]) 28.6 at 6 40 pm.

Brunton's Bar Traverse - [illegible] to Mdaken

Sta.	Elev.	Dir ahead	Remarks
1. 0	770	N 45 W / 25	[illegible]
2. 370		N 20 W / N	
3. 490	915	N 45 W / 25	[illegible]
4. 525	960	N 45 E / 65	top steep [illegible]
5. 576	" ±	S 75 E / 55	
6. 950		S 70 E	See 16
7. 975	900	N 45 E / 35	[illegible]
8. 1037	1085	N 20 E	

L321

Sta	Pace	Elev	Dir ahead	Remarks
	9. 1135		N 55 E	[illegible]
	" 1190	1050	" ±	
	10. 1250	940	N 60 E	
	11. 1280	" ±	N 20 W	(folds?)
L322	12. 1324	"		start up - detrital [illegible]
L323	13. 1491	1040	N 25 W	shifting [illegible] (crel in [illegible])
	14. 1668	1135	N 5 W	high point
	15. 1696	"	N 15 E / N 5 W	Desert ahead
	16. 1741		N / N	
	17. 1782	1110	N 10 W	undulating, fouled gently, [illegible] under [illegible] - [illegible]
	18. 1918	" ±	N 5 E / N 5 W	
	19. 2000	" ±	N 35 E	
L324	20. 2140	1120	"	[illegible]
	21. 2269	" ±	N 65 E	
	22. 2345	" ±	N 35 E	
	23. 2575	1120	N 50 W	swinging to
L325	24. 2664	1130	N 75 W	L.S.
	25. 2790	" ±	N 45 W	[illegible] ahead
	26. 2917	1050	N 25 W	[illegible]
	27. 3120	1040	N 20 W	"
	28. 3235	"	N 20 E / N	Along side of long gentle slope

Do link of sta check-ties with A-A'

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220' to WPS

Lost

N 30 E

label destroyed

1	0		N 50 W	
2	4 Lks	"	S 80 W	
3	5 1/2		N 1/2 W	
4	8 Lks	"	"	
5	9 3/4	"	N 1/2 W	
6	8 1/2	"	N 50 W	
7	10 00	"	N 70 W	
8	14 00	"	N 50 W	
9	16 00		N 50 W	
10	11 75		N 50 W	
11	2 60		N 70 W	
12	2 50		N 50 W	
13	1 90		N 50 W	
14	3 20			
15	3 70			
16	3 00			
17	4 00			
18	3 00			
19	3 20			
20	3 00			
21	1 00			
22	4 00			

on offshore rmp
- cor fairly fine
rounded & subr w/
boulder, some sand!

23 4755 N30E

24 4850 N35E (Mr Jeremiah)

L344a 25 4910 boulder & [illegible] Coral loc.

b - sample of sig rock left below contact. Contact of coral head on opposite rock at sta L344a. - Contact an irregular line rising from sea level in open cave. Cave over 100' long & 50'± deep & 30'± high. Beyond this point be interrupted at sea level along entire north coast of island. Agg seen 15' in back of cave - much eroded & sol (contact & cave deposits) at contact.

Basal portion of loc. highly coralliferous & locally as a good coral head by (some eg. boulders) "still coral living and present". With coral are numerous large & small colonial species of several types. Especially numerous are the large pencil-like flattened species. Two small clams in the left lower left which still gaped around foramen on stepping. Coral from 0-12' above sea level mostly - a few fresh blocks which probably have fallen from higher levels. Interior of coral, mud recrystallized, the spaces between heads occupied by a packing of shells, with heads distinctly not in position of growth; save a few much worn, particularly the fragmentary branching forms. Saw for one small pocket a S and g cave corals are not well preserved. Some of boulders are agg except 4" - mud spherules weathering

Thurs. May 10th
Arr. 28.51 @ 6:45 AM.

TRAVERSE SOUTH from Tipworths, along coast

Sta	Pace	Direction	Remarks
1	0	S20E	Beach opposite house
2	330		Agg. exp. at S.L. & up 18'+
3	350	S60E	Lo. fetched by bird, ending at next sta
4	645	S30E	Lo
[L317] 5	1065	"	"
6	1220	S40E	" - 20' thick coral cliff
7	1333	S65E	", concave to next sta
8	1570 ?	S70E	
9	1965	"	Vol. begun
10	2130	N85E	Vol. ends - agg. forming low (25') cliff on promontory. Beach begins (Omerna)
1st Vol. belt			
L347 → 11	2480	S70E	Vol. agg. on another low bluff - Namunu Rd. bus S57E
12	2635	"	Agg. ends, lo. begins
[L318] 13	2865	"	Agg. begins on seaward low bluff in yard
14	2955	"	Agg. ends; lo. begins
15	3015	N15E	(rd. slant off bus)
16	3130	N80E	Scattered lo. on top bus to next - low.
17	3505	N60E	Pretty lo - low rock, rang. to detail massive
18	3610	N20E	To island bus S55E (Namunu)
19	4114	N10W	
20	4210	E	
21	4325	N20E	
22	4505	N15E	

37	[illegible]	"	
38	[illegible]	N 50 W	
39	[illegible]	N 60 W	
40	[illegible]		
41	[illegible]		
42	[illegible]		
43	[illegible]		
44	[illegible]	[illegible]	
45	[illegible]	"	[illegible]
46	[illegible]	N 10 W	
47	[illegible]	N 25 E	
48	[illegible]	N 25 E	
49	[illegible]	"	[illegible]
50	[illegible]	N 25 E	[illegible]
51	[illegible]	N 10 E	
52	[illegible]	[illegible]	
53	[illegible]	[illegible]	
54	[illegible]	[illegible]	[illegible]
55	[illegible]	"	
56	[illegible]	N 25 E	
57	[illegible]	[illegible]	
58	[illegible] 315	N 50 W	
59	[illegible] 22	N 50 W	
60	[illegible]	[illegible]	
61	[illegible]	[illegible]	
62	[illegible]	[illegible]	
63	[illegible]	[illegible]	

1	[illegible]	[illegible]	
2	110	N35E	[illegible]
3	[illegible]	[illegible]	[illegible]
4	590	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]
6	860	[illegible]	[illegible]
7	[illegible]	[illegible]	
8	[illegible]	[illegible]	
9	[illegible]	[illegible]	
10	[illegible]	[illegible]	
11	[illegible]	[illegible]	
12	[illegible]	[illegible]	
13	[illegible]	[illegible]	
14	[illegible]	[illegible]	
15	[illegible]	[illegible]	
16	1535	[illegible]	
17	1555	[illegible] ?	
18	[illegible]	[illegible]	
19	[illegible]	[illegible]	
20	[illegible]	[illegible]	
21	[illegible]	[illegible]	
22	1875	[illegible]	
23	1965	[illegible]	
24	1995	N5DE	
25	[illegible]	[illegible]	
26	[illegible]	[illegible]	
27	[illegible]	N35E	
28	[illegible]	[illegible]	
29	[illegible]	[illegible]	
30	[illegible]	[illegible]	
31	[illegible]	[illegible]	
32	[illegible]	[illegible]	
33	[illegible]	[illegible] N50E	

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395'

355'

375'

365'

385'

195'

215

175'

In connection with water supply — It is very disappointing to find that water for fish (?) of this lake almost fresh. Apparently there is but little mixing & a stratum of fresh or slightly brackish water which extends seaward below sea level to considerable distances. A simple test of chemical analysis will show the water capable of some submarine solution. If so, here is a method of forming deep cave, interior lake source & interior passages. The lake formed by strongly charged solution in upper levels would sink etc. to sea level. When coupled with sea erosion on later stages they could even form such an island as Tatanga — a site beyond dispute. It might be well to see if our cave sample with water from this cave will erode sea level. Perhaps cave water may be nearly sat. with CaCO₃ & yet they have formed caverns. It suggests that fine organic sediment observed in Tumfa lake may act as a barrier in preventing the entrance to sea water — possibilities!?

The water that issues from the spring at Tumfa is muddied quickly by rain. Evidently it flows mainly through fissures & cracks. Considerable sediment may be removed from the interior in this way.

Sat May 19 — elev. bottom gap. 420' (A)
Top of ridge E of gap — elev. 5[illegible]
L366 — [illegible]

Traverse from pt. on 400' rim N5~~X~~W of Yamuka Id. to And. Ridge.

Sta	Pace	Elev.	Dir. ahead	Remarks
L367 34	0	1260	N	Rim to west 40–50' higher (100' [illegible] 25' ± to W)
33	25		N35W	
32	40	1190	N30E	Deep fissures & cave
31	85	1160	N10E	"
30	150	1155	N25E	— more level, patches
29	200		N	—
28	310	1130	N45W	
27	360	1145	N80W	
26	400	1±	N30W	
25	433		N65W	
24	445	1100	"	
23	550		N45W	
✓ 22	570	1130	"	Low steeper climb
✓ 21	685	1290	N	Top (below L366)
20	695	1±	N ~~N30W~~	
19	700	1265	N	Small cave
18	800	1233	"	flat & stack top
17	836	1±	N45W	
16	873	1±	"	Considerable cond. (St) — little detritus
15	897	1235	N75W	Rough — trees, slope, [illegible] — hole 25'
14	935		N60W	through gap on N side
13	948	1200±	N50W	[illegible]
12	981		S65W	
11	1000	1145±	N60W	
10	1070	1205	N55W	

Traverse East coast to —
Sta 25 of May 11th P.M. traverse.

1368 27 0 1100 [illegible]

26 30 1025 11

25 [illegible]

19 342

18 [illegible]

17 [illegible] 1215

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∠370a = dgg)

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(L373) 26

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29 N 10 E

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4374?

1 0 N 10 E

2 50 N 25 E

3

4 140 N

1336 900 " (" ")

5 126 N 35 E

6 163 N 25 E

7 145 N 20 E

8 120 N 40 E

1337 9 1213 "

10 1258 N 30 E

11 1255 N 25 E

12 1400 N 25 W

13 1419

14 1431 S 70 W

15 1400 S 5 E

16 1321 S 40 W

L376 17 1366 N 35 W

18 1381 N 25 E

19 1410 N 30 W

20 1470 N 70 W

21 1475 N 20 W

22 1500 "

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11 N 25 W
12 140 N 25 W
13
14 N 15 E
15
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17 N 65

[illegible]

Sun. June 10th

100½

Nassau

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Wed. July 4th

Traverse East of Village - along shore

Sec.	Pace	Dir.	Remarks
1	0	N75E	Beach
2	120	S25E	Rocky pt. begins
3	168	N70E	Beach begins
4	435	S80E	"
5	700	S	L. begins
6	830	S45E	"
7	950	S25E	"
8	1060	S10E	"
9	1166	S20E	Bedded ls - heavy beds 18" or more (3-4') - forams and algae - like bedded ls to west. This "older" ls - no trace pref veneer - Hor. ±
10	1245	S35E	Well bedded ls - Hor. ±
11	1300	S55E	" " " "
12	1375	S	pitted ls
13	1500	N70E	ls - bedded - 5°E ±
14	1562	N40E	cutting off small head (14-15) with ls at back
15	1660	N30W	pitted ls
16	1840	S85E	cutting off beach (16-17) - shoal to rocky point and beyond
17	2140	N50W	ls tide flat is at sta. 17 - id. of bedded ls
18	2325	N55E	Curving beach starts here
19	2540	S80E	" " cantilevers
20	2800	S5W	" " " - shoal to rocky pt.
21	2990	S20E	cutting off small beach (21-22)
22	3225	S20W	pitted ls begins
23	3420	S35W	" "
24	3630	S25W	" " - suggestions of bedding.
25	3920	S35W	- like last
26	4116	N60E	East bora bay
27	4167	N15E	
28	4210	S65E	
29	4300	S40E	
30	4320	S65E	Bedded ls - 12°W ± ?
31	4510	N15W	Very irreg coast 30-31. This ls all appears to be bedded
32	4590	S85E	- many toadstool ls very off shore on tide flat - beach from 32-33 - northw, ls at back
33	4765	N	Beach continues
34	4890	N60E	Steep ls coast begins - ∠ is 40° ±
35	4970	N50E	
36	5027	"	(trail inland) - Kaora

1	200	S 55 W	
2	400	S 35 W	
3	600	S 20 W	[illegible]
4	800	N 45 E	
5	900	N 20 E	
6	1000	S 20 W	[illegible]
7	1020	S 30 E	[illegible]
8	1100	S 50 W	
9	1145	S 35 W	
10	1160	S 15 E	
11	1220	S 20 E	
12	1235	S 35 E	
13	1330	S 30 E	
14	1420	S 20 E	
15	1445	S 30 W	
16	1510	S 10 E	
17	1540	S 30 W	
18	1730	S 30 W	
19	1830	S 50 W	
20	1850	N 45 W	
21	[illegible]	[illegible]	

864
Lab
XVI
1934
Lau Islands

264

Ladd

XVI

1934

Lau Islands

(L235)

(L227)

4440	N 5 W	
4512	S 5 W	
4545	N 20 W	
4570	N 30 W	
4598	N 25 W	
4640	N 45 W	
4681	N 50 W	
4714		
4770		Out of
4867	N 10 W	[illegible]
4940	N 25 W	[illegible]
4995	N 25 W	
5040	N 25 W	
5112	S 25 W	
5130	[illegible]	[illegible]
[illegible]	[illegible]	
[illegible]	S 65 W	
[illegible]	[illegible]	
[illegible]	N 10 W	

10

0

20

20

10

15

40

~~40~~ 30

19	1450	700 ±	N80W	–	8½ cell
20	1452	" ±	N80W	–	" "
21	1450	" ±	N45W	–	"
22	1502	" ±	N75W	–	"
23	1653	670 10	S55W	–	" (bar, present pieces)
24	1600	" ±	S10W	–	" – 1500
25	1645	" ±	S20W	–	"
26	1683	690 30	S40E	–	" undergrd
27	1699	" ±	S25W	–	" " "
28	1766	690 30	S5W	–	Namban direct chart – orb. ls – s.l. at Namban – pumice sta
✓ok. 29	1785	660 0	–	–	

Tr. N. Nambau to W – along shore

	Pace	Dir.	Rem.
1	0	N85W	– s.l. – ls. – l. sh. off shore
2	60	N50W	–
3	130	N10W	
(L231–234) 4	200	N70W	– former orb. loc
5	300	N50W	– good building
6	370	N85W	–
7	425	N50W	
8	495	S55W	– massive bols N50W, 7° N – forams, algae
9	545	N55W	– coral – my map station
10	635	W	
11	880	S	coarse detrital – forams – coll. each beach sand not in forams – "Tobumitumone" (= pile of dents") – beach region
L399 (no ls. coll.)			
12	935	E	– beach ends – ls. "
13	1005	S15W	
14	1071	N60W	(just cut off small pt – through hole)
15	1140	N45W	
16	1200	W	
17	1230	N40W	
18	1310	S	– long beach pt by cut off
19	1358	S60W	
20	1410	N70W	– cutting off point here – go thru hole
21	1440	N15E	– coral very irreg
22	1500	N75W	
23	1675	S70W	– middle of long beach
24	1735	N80W	
25	1850	S	
26	1900	N75W	
27	1960	S60W	
28	1995	S80W	– scalloped coral

Traverse Waste to Village
(starting pt. 75 ft from end last trav.
course at 2.8 rd 675')

Sta.	Dist.	Elev.	Dir.	Remarks
1	0	675	S70E	Road
2	45	680±	N55E	
3	71	" ±	N75E	
4	140	700	N70E	
5	200	700	S55E	Flattest
6	290	720	S60E	
7	375	" ±	N55E	
8	420	" ±	N30E	
9	460	" ±	N55E	
10	530	710	N35E	
11	590	" ±	N85E	
12	690	" ±	N65E	
13	765	735	N75E	
14	800	" ±	N50E	
15	840	" ±	N65E	
16	895	735	E	
17	990	770	N40E	
18	1040	" ±	N50E	
19	1090	" ±	N80E	flattest, small bu
20	1170	780	N60E	
21	1295	780	N35E	
22	1325	" ±	N25E	
23	1370	" ±	N45E	
24	1455	" ±	N50E	
25	1480	780	N75E	
26	1515	" ±	N55E	
27	1555	" ±	N70E	
28	1700	780	N80E	
29	1742	" ±	"	Peak creek fording
30	1825	" ±	N70E	
31	1875	" ±	N50E	
32	1925	" ±	N70E	
33	1950	805	S70E	
34	2080	" ±	S60E	
35	2200	820	S70E	
36	2225	810	S75E	
37	2275	" ±	S80E	
38	2375	810	N75E	
39	2425	" ±	N45E	

120

135

130 Lekutulevu

100

80

70

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✓ OK.

1	525	[illegible]	
2	625	N50W	
3	650	N55W	
4	750	[illegible]	
5	900	N40W	
6	925	[illegible]	
7	932	N45W	
8	1100	N20W	
9	1135	N10W	
10	1175	N30E	
11	1195	N35E	
12	1161	N55E	
13	1180	N75E	
14	1205	N25E	
15	1235	N75E	
16	1285	N10W	
17	1300	N75E	
18	[illegible]	N20E	
19	[illegible]	[illegible]	
20	1510	S30E	
21	1510	N30E	
22	1560	[illegible]	
23	1625	N45E	
24	1735	N60E	
25	1855 ±	N70E	
26	2000 ±	S30E	
27	2095	N60E	
28	2120	N70E	
29	2180	S60E	
30	2210	N80E	
31	2317	N55E	
32	2377	E	
33	2375	[illegible]	
34	2450	[illegible]	
35	2490	N45E	
36	2550	E	
37	2575	S50E	
38	2790	N40E	

21	1270		1270	
Land at	3000±			
22	11			
23	35	15		
24	35	35		
25	1-11			
26	100	770	60'	57500
27	325			52500
28	260	840	130'	
29	245			51000
30	325	805	95'	51000
31	380	845	85'	
32	510			
33	570	715	65'	52500
34	700	770	60'	
35	720	155	45'	
36	1200	740	15'	
37	1300	1[illegible]		
38	1350	1[illegible]		56500
39	1515	730	15'	57850
40	1650	11		
41	1760	11		N600
42	1877	725	10'	

Sun July 8th

Traverse Manor to west along [illegible]

Sta	Pos	Dir	Remarks
1	0	N60W	To [illegible]
2	40	N20W	[illegible]
3	140	N30W	
4	205	N60W	
5	245	N70W	
6	300	S30W	
7	475	[illegible]	
8	525	N75W	
9	765	S25W	
10	825	N70W	
11	1[illegible]	[illegible]	

	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	
21	[illegible]	[illegible]	
22	[illegible]	[illegible]	
23	[illegible]	[illegible]	
24	1530	N 55 W	
25	[illegible]	[illegible]	
26	[illegible]	[illegible]	
27	2020	[illegible]	
28	2120	N 20 W	
29	[illegible]	N 35 W	
30	2324	N	
31	2361	S 65 W	
32	[illegible]	[illegible]	
	[illegible]	[illegible]	
33	2610	[illegible]	
34	2751	[illegible]	
35	2570	N 65 W	
36	[illegible]	[illegible]	
37	2921	N	
38	3025	N 30 W	
1463 39	3105	—	[illegible]

	0	N [illegible]	
	[illegible]	[illegible]	
	30	[illegible]	
	90	N 30 [illegible]	
	[illegible]	[illegible]	
	120	[illegible]	
	240	N [illegible]	
	[illegible]	[illegible]	
	305	N 70 [illegible]	
	370	S 85 W	
	[illegible]	[illegible]	
	600	N 50 [illegible]	
	800	[illegible]	Log [illegible] (highest pt) [illegible] E [illegible] [illegible]
	[illegible]	[illegible]	
	[illegible]	[illegible]	
33	170	[illegible]	
32	1135	N [illegible] W	
31	1192	S 65 W	
30	1390	[illegible]	
29	1390	N 3 W	
28	[illegible]	N 55 W	
27	[illegible]	[illegible]	
26	[illegible]	S 30 W	
25	[illegible]	S 35 W	
24	[illegible]	[illegible]	
23	1675	[illegible]	Long [illegible]
22	1755	S 70 W	
21	1810	S [illegible]	
20	2270	[illegible]	
19	2155	N [illegible]	
18	2193	N [illegible]	
17	2215	[illegible]	
[illegible]	2245	N [illegible]	
15	2323	N 70 W	
14	2361	S 70 W	

contains larger numbers.

(F61,62)

(F63,64)

(F65) Willy Wainwright

(F65,66) (N.G.)

(F67)

85

'6

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46			
45			
44			
43			
42			
41			
40			
39		+8	
38		+11	N 25W, [illegible]
37		+7	
36	1690	+12	N [illegible] - [illegible] N 75W
35		+11	N [illegible] - [illegible]
34			[illegible] - [illegible]
33		+5	[illegible] - " "
32			W - [illegible]
31			
30			
29			
28			
27			
26			
25			
24		+12	
23			
22			
21		+4	
20			
19			

Collector	No.	Trap	Depth	Locality and Remarks
Kellogg	38	[illegible]	[illegible]	Cave #2
"	39	"	"	Cave #3
Sec. Mission	40 41 42 43 44 45 46 47 48 49 50			See this section pp. 40-42
"	51	35	50	[illegible]
Nelson's	52	[illegible]	50	Near [illegible]
"	[illegible]	[illegible]	[illegible]	[illegible]

55

Wangova	54	?	Sur.	Interior lake - see p. 95. Sample taken July 27 at 9:00 a.m. - clear - tide 1½ hr. + past ebb - lake seems to rise and fall with tide but to lag behind ocean. - sample from sur. near shore in 1½' water.
Oneeta	55	24.6	Sur.	Cave in Toyowu Pt. close to Ndzeituloa - brackish - more than 6' deep - pool 15'± across - at 5.4. Aug. 3, at 11:30 a.m. - partly cloudy - light showers in A.M. and yesterday
"	56	25°	"	Western lake - opposite sta. L483 (few yds to W) - Aug 4, at 1:15 p.m. - partly cloudy - drizzle earlier in morning - lake said not to be affected by tide though surface is close to sea level - water fresh to taste

Fri. July 20th

R (F68), #5 - Vunavara (highest point on Mamuka) - looking W.

Off from Mamuka (Matandolo) at 6:45 A.M. in canoe: partly cloudy - fair wind

North coast of Mamuka all fairly high. Coast is somewhat uneven but there are no big gaps & nearly down the coast drops below 175' - from to Matandolo is probably lowest of all. Upper 2/3 of ridge is a cliff in many places & a number of caves (similar to the fortified one seen yesterday) occur in the upper ½ of the ridge. The coast remarkably free of islands

KAMBARA

L4/9 Along land - Ngalungi to Ulu (Vatu Longosonga) - small run close to Ngalungi - a bedded sandy (foam?) rock - low cliffs (coralline bedding?)

Continued along land island (to W) - lie of surface less rocky in small patches but

(F64) Rarolo, Kamlara.

(F70)

(F71, 72)

[illegible]

[illegible]

[illegible]

[illegible]

WRANGELL

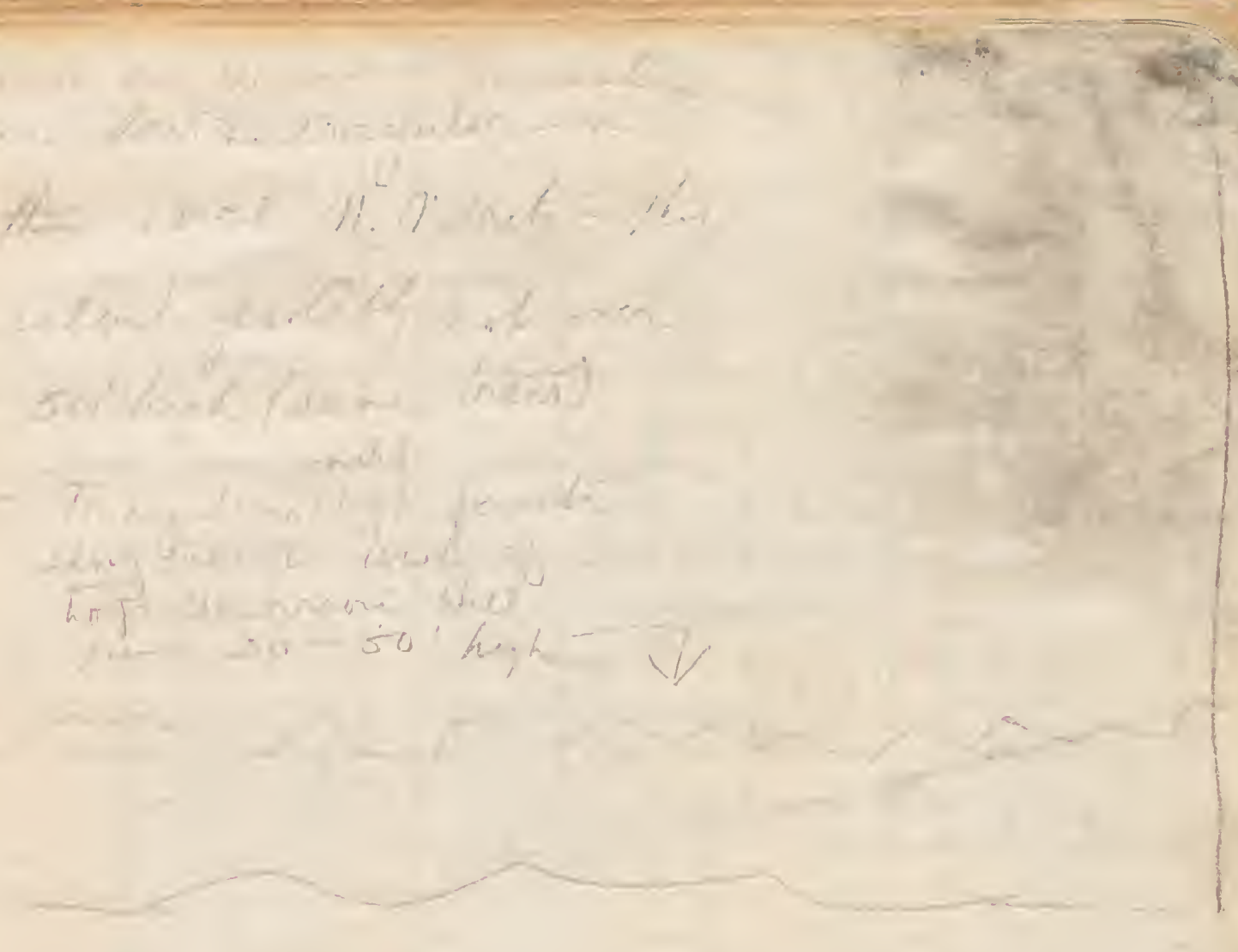
[illegible]

(F73A-C)

Mch. 6, 1955

(F74, 75)

30 - 50' high



HIS ORDER

TO DUPLICATE THIS ORDER
REFER TO
JOB No.
51709
HONOLULU NILE FILMING STAR